

(FID 20585)

Statistical Analysis of Outbreaks of Bovine Influenza
in 1949-1951 by ~~the~~ Ministry of Agriculture Bureau of
Animal Industry, 20 pp.

JAPANESE, no per, Nihon Jishiki Zasshi, Vol V,
No 2, pp 53-56, Tokyo, Feb 1952.

CIA/FID/U-5963

FE - Japan

Sci - Med

15,274

May 54 CTS

(FDD 20587).

On the Immune Serum of So-Called Bovine Influenza, by Sugimura Katsuji, 20 pp.

JAPANESE, no per, Nihon Juishiki Zasshi, Vol V, No 8, Tokyo, Aug ~~1951~~ 1952, pp 249-252.

CIA/FDD/U-6194

FE - Japan
Sci - Medicine, vet.

18,247

(FDD 20588)

Bacteriological Observations of Cattle Which
Died From Epidemic Bovine Influenza, by ~~Keizaburo~~
~~Itagaki, 20 pp.~~ by Itagaki Keizaburo, 20 pp.

JAPANESE, no per, Nihon Juishikai Zasshi, Vol V,
No 8, Tokyo, Aug 1952, pp 253-258.

CIA/FDD/U-6195

FE - Japan
Sci - Medicine, vet.

18,245

(FDD 20589)

On the Relationship Between Weather and the
Outbreaks of Epidemic Bovine Influenza in
Aukui-Ken, by Matsumoto Ju, 13 pp.

JAPANESE, no per, Nihon Juishikai Zasshi, Vol V,
No 8, Tokyo, Aug 1952, pp 265-268.

CIA/FDD/U-6196

FE - Japan
Sci - Medicine, vet.

18, 244

(FDD 20590)

Histo-Pathological Changes in the Central Nervous System in Bovine Influenza, by M. Tajima, 15 pp.

JAPANESE, no per, Nihon Juishikai Zasshi, Vol V, No 10, Tokyo, Oct 1952, pp 326-329.

CIA/FDD/U-6274

FE - Japan
Sci - Medicine, vet.

18,237

TT-64-14657

Takamori, Otomatsu.
STUDIES ON GOITER OF FARM ANIMALS IN
JAPAN. I. STUDIES ON GOITER IN SHEEP. [1963]
[28p] (foreign text included) 29refs
Order from SLA \$2.60

TT-64-14657

Trans. of [Nihon Juigaku Zasshi] (Japan) 1954, v. 16,
p. 153-64

- I. Takamori, O.
- II. Title: Studies...

(Agriculture--Animal Husbandry, TT, v. 11, no. 11)

Office of Technical Services

Outbreak of Food Poisoning Probably Due to the
Liver of Ishinagi (*Stereolepis Ishinagi*), by H. Abe,
M. Uchimura, 13 pp.

JAPANESE, par, Nihon Juishikai Zasshi, Vol X, No 3,
1957, pp 125-127.

WII 3-10-61

Sci - Med
Apr 61

149,078

Effects of Anastomosis Between the Renal and
Portal Vein in ~~Exa~~ Experimental Renal Hypertension,
by Sigeru Auki, 24 pp.

JAPANESE, per. Nippon Jinkanikigaku Shi,
No 26, 1962, pp 455-465.

NIH 10-2-63

Sci - Biol & Med
Nov 63

243,572

A New Anti-Cancer Antibiotic Carcinomycin, by
S. Hosoya, 15 pp.

JAPANESE, per, Nihon Kagaku Ryoho Gakkai Zasshi,
Vol III, No 4, Jul 1955, pp 123-131.

NIH 3-2-60

Sci - Med

May 60

117, 406

(DC-2960).

Extracts From Japanese Document on Japan's
Chemical Industry, by Yujiro Hayashi, 75 pp.

JAPANESE, per, Nihon no Kagaku Kogyo, 30 Nov 1958.

JPRS-921-D

FE - Japan
Sci - Chem
Sep 59

97,730

Studies of Glucosidation With N-acylglucosamine Using Lewis Acid as the Catalyst, by T. Yoshimura, et al.
JAPANESE, per, Nippon Kagaku, Vol 85, No 2, 1964, pp 142-145.
NEW NIH 1-19-66

FE-Japan
Sci/DOE
Mar 66

297,162

CHEMICAL COMPONENTS OF CYCAS REVOLUTA THUNB, (PART
II), BY KIYOHISA YOSHIMURA, 6 PP.

JAPANESE, PER, NIHON KAGAKU ZASSHI, VOL XL, 1919,
PP 914-921.

NIH 6-73-62

SCI - CHEM

208,809

AUG 62

Theoretical Heat of Dissolution of Hy-
drated Salts (Copper Sulfate), by
F. Ishikawa
JAPANESE, per, Nihon Kagaku Zasshi,
vol. 44, 1923, pp. 708-725.
*CFSTI TT 70-57148

sci/phys
Mar 70

Chemistry of Ether, by Komatow, Tanaka, 33 pp.

JAPANESE, per, J Chem Soc Japan Pure Chem Soc,
Vol 11, 1930, pp 138-150.

SIA 57-1443

Sci Chemistry
Feb 58

59,492

Komatsu, S. and Kawamoto, T.
CATALYTIC CHLORINATION. III. ACTION OF
CHLORINE ON CYCLOHEXANE IN THE PRESENCE
OF REDUCED COPPER. [1963] 14p. 13 refs.
Order from SLA \$1.60

63-14836

Trans. of [Nihon Kagaku Zasshi] (Japan) 1931, v. 52,
p. 685-690.

DESCRIPTORS: *Cyclohexanes, *Chlorination,
Chlorine, *Catalysis, *Copper catalysts, Chlorides,
Synthesis (Chemistry), Molecular structure, Molecular
isomerism.

(Chemistry--Organic, TT, v. 10, no. 4)

63-14836

I. Komatsu, S.
II. Kawamoto, T.
III. Title: Action . . .

K-H 1667

Office of Technical Services

Komatsu, S. and Nakayama, T.
REACTIVITY OF CARBOXYLIC ACID ESTERS.

[1961] 14p.

Order from ATS \$21.95

ATS-93N48J

Trans. of [Nihon] Kagaku Zasshi (Japan) 1933, v. 54,
p. 558-569.

- 61-241-1
1. Esters--Chemical reactions
 2. Carboxylic acids--Chemical reactions

- I. Komatsu, S.
- II. Nakayama, T.
- III. ATS-93N48J
- IV. Associated Technical Services, Inc., East Orange, N. J.

ATS JJ-4029

100100

Office of Technical Services

(Unannounced)

Studies on Active Carbon: 3.- Sorption Equilibrium
of Organic Vapours in Coconut Shell Charcoal, by
Tamara Satsuro, Kamiko Osamu

Nihon Kagaku Zasshi
JAPANESE, J. Chem. Soc., Japan, IX pp 1109-1121, 1933.

TPA3/TIB Tr/ No T 3924

Scientific - Chemistry

Studies on Active Carbon: 5.- On the Preparation of
Granular Active Charcoal by Gas Activation, by
Tamaru Setsuro, Inai Mizai, Kano Sakube

Nihon Kagaku Zasshi 1933

JAPANESE, per, J. Chem. Soc., Japan, pp 1129-1144.

TPA3/TIB Tr Eo T 3925

Scientific - Chemistry

Studies on Active Carbon: 6.- The Sorption Equilibrium
of Benzene in Gas-Activated Wood (Charcoal and in
Filter-Paper Charcoal Activated by Impregnation,
by Immi Kishi

Nihon Kagaku Zasshi 1953
JAPANESE, per, J. Chem. Soc. Japan, pp 1145-1154.

TPA3/TIB Tr No 2 3926

Scientific " Chemistry

Studies on Active Carbon: 7.- The Equilibrium of
Sorption of Benzene by Various Kinds of Active
Carbon, Activated by the Impregnation Method, by
Isai Mizui

M. Mizui - 1933
JAPANESE, pub. J. Chem. Soc. Japan, pp 1155-1167

MPA3/TIS Tr No 3927

Scientific + Chemistry

Contact Changes of Isonami Alcohol, by Fujit

JAPANESE, var. Nihon Kagaku Zasshi, Vol IV,
1934, pp 11-14.

S.L.A. Tr Pool

Scientific - Chemistry
CTS/DEK

14340

Synthesis of Dimethylacetal by the
Condensation of Methanol and Acetylene,
by S. Tamaru, Y. Tanaka.
JAPANESE, per, Nihon Kagaku Zasshi, Vol LVI,
No 4, 1935, pp 486-504.
SLA TT 64-30147

May 67

327,184

Velocity of Diffusion of a Single Electrolyte, by
Sinnosuke Matuura, 11 pp.

JAPANESE, per, Nihon Kagaku Zasshi, Vol LVIII,
No 8, 1937, pp 819-823.

SLA 59-17085

Sci
Jan 60
Vol 2, No 7

104, 820

Diffusion of Mixtures of Two Electrolytes, by
Sinnosuke Matsumura, 3 pp.

JAPANESE, per, Nihon Kagaku Zasshi, Vol LVIII,
No 8, 1937, pp 824, 825.

SIA 59-17086

Sci
Jan 60
Vol 2, No 7

104,819

Sano, Koichi.
THE DISSOCIATION PRESSURE OF HYDRATES. VI.
THE DISSOCIATION VAPOR PRESSURE OF
 $\text{MgCl}_2 \cdot 4\text{H}_2\text{O}$ AND $\text{MgCl}_2 \cdot 2\text{H}_2\text{O}$. [1964] 9p (figs omitted)
8 refs
Order from SLA \$1.10 TT-64-10791

Trans. of Nihon Kagaku Zasshi (Japan) 1933, v. 59,
no. 10, p. 1145-1149.

(Chemistry, TT, v. 12, no. 2)

I. Sano, K.
II. Title: Dissociation ...

Office of Technical Services

Yamaguchi, Yohei and Shishido, Toahisuke.
THE CHANGE OF POLARIZATION EFFECT AND
RESISTANCE CAPACITY. [Repr.] 1 of [Electrolytic
Conductivity of Fused Salts. [1963] 26p (figs omitted)
Srefs
Order from SLA \$2.60

TT-64-10143

Trans. of [Nihon Kagaku Zasshi] (Japan) 1938, v. 59,
p. 1311-1320.

DESCRIPTORS: *Fused materials, Salts, Electrical
conductance, Polarization, Resistance (Electrical),
Aluminum compounds, Chlorides, Sodium compounds,
Electrolysis,

(Chemistry--Physical, TT, v. 11, no. 5)

TT-64-10143

- I. Yamaguchi, Y.
- II. Shishido, T.
- III. Title: Electrolytic ...

Office of Technical Services

Research on Triboluminescence, by Tomoharu Inoue,
Minoru Kunitomi, 23 pp.
JAPANESE, per, Nihon Kagaku Zasshi, Vol 60,
1939, pp 149-156. P911278268-V
AEC-NP-Tr-1684

Sci/Chem
Nov 68

368,921

Highly Condensed Products of Some Amino Acids,
by Yukichi Go, Hisaya Tani, 14 pp.

JAPANESE, per, Eihon Kagaku Zasshi, Vol XIV,
1939, pp 510-516.

NOT RELEASABLE TO FOREIGN NATIONALS

CIA/FDD IX-317

Sci - Chemistry

Aug 57

IAC INTERNAL USE ONLY

51,172

A Study of the Mechanism of Thermal Decom-
position of Sodium Formate Leading to the For-
mation of Sodium Oxalate and Sodium Carbonate
I. Heating Curves of Sodium Formate and Its
Products, by S. Takagi, 9 pp.

JAPANESE, per, Nihon Kagaku Zasshi, Vol LX,
No 7, 1939, pp 625-631.

ATS-53842J
ATS/JJ-2577
193,853

Sci
Vol IV, No 7
Apr 62

62-18215

Shibata, Y. and Matsumoto, B.
REDUCTION OF QUINONE BY H_2 IN THE PRESENCE
OF (Pd-en) Cl_2 . Pt. 13 of Catalytic Oxido-Reduction by
Some Metallic Complex Salts. [1962] [6]p.
Order from SLA \$1.10

62-18215

Trans. of [Nihon Kagaku Zasshi] (Japan) 1939, v. 60,
p. 1173-1176.

DESCRIPTORS: Catalysts, *Complex compounds, Salts,
*Palladium compounds, *Chlorides, *Quinones,
Reduction, Hydrogen, Reaction kinetics.

(Chemistry--Physical, TT, v. 9, no. 5)

I. Shibata, Y.
II. Matsumoto, B.
III. Title: Catalytic...

Office of Technical Services

62-18216

Shibata, Y. and Matsumoto, B.
CATALYTIC REDUCTION BY RHODIUM COMPLEX
SALTS. Pt. 14 of Catalytic Oxido-Reduction by Some
Metallic Complex Salts. [1962] 10p. 8 refs.
Order from SLA \$1.10 62-18216

Trans. of Nihon Kagaku Zasshi (Japan) 1939, v. 60,
p. 1287-1292.

DESCRIPTORS: Catalysts, *Complex compounds, Salts,
*Rhodium compounds, Chlorides, *Quinones, *Nitrites,
Organic compounds, Reduction, Hydrogen, Reaction
kinetics.

The studies on reduction of quinone with hydrogen in the
presence of rhodium complex salts show that the un-
stable complex salts accelerate reduction of quinone,
although the stable complex salts do not show any con-
tact catalytic effect. Rhodium chloride shows strong
catalytic effect on reduction with hydrogen of nitrite and
many other substances. (Author) (See also 62-18215)

I. Shibata, Y.
II. Matsumoto, B.
III. Title: Catalytic...

(Chemistry--Physical,
TT, v. 9, no. 5)
Office of Technical Services

TT-64-14416

Shishido, Shunsuke.
THE RELATIONSHIP BETWEEN ELECTROLYTIC
CONDUCTION AND VISCOSITY. Rept. 3 on Electrolytic
Conductivity of Fused Salts. [1963] 14p 10refs
Order from SLA \$1.60 TT-64-14416

Trans. of [Nihon Kagaku Zasshi] (Japan) 1941, v. 62,
p. 381-387.
Another trans. is available from SLA as I-651, 14p.

I. Shishido, S.
II. Title: Electrolytic...

(Chemistry--Physical, TT, v. 12, no. 1)

Office of Technical Services

Shishido, S.
THE RELATION BETWEEN ELECTROLYTIC CON-
DUCTION AND VISCOSITY. Rept. 4 of Electrolytic
Conductivity of Fused Salts. [1963] 11p 1ref
Order from SLA \$1.60 TT-64-10139

Trans. of [Nihon Kagaku Zasshi] (Japan) 1941, v. 62,
p. 592-596.
Another trans. is available from SLA as I-662, 11p.

(See also TT-64-10143)

DESCRIPTORS: *Fused materials, Salts, *Electrical
conductance, Viscosity, Electrolytes,

(Chemistry--Physical, TT, v. 11, no. 5)

TT-64-10139

I. Shishido, S.
II. Title: Electrolytic ...
III. SLA-I-662

Office of Technical Services

62-12566

Uchida, S.
CRYSTAL-OPTIC PROPERTIES OF AMMONIUM
IMIDOSULFONATE AND AMMONIUM AMIDOSUL-
FONATE. Pt. 1. on Properties of the Products of
Anhydrous Reactions Between Ammonia and Sulfur
Trioxide and their Derivatives. [1961] 10p.
Order from ATS \$13. 40 ATS-07N58J

Trans. of [Nihon Kagaku Zasshi] (Japan) 1942,
v. 63, no. 5, p. 504-509.

DESCRIPTORS: *Crystal structure, *Ammonium
compounds, *Sulfonates, Imides, Amides, Optics,
Ammonia, Sulfur compounds, Oxides.

(Chemistry--Physical, TT, v. 7, no. 9)

- I. Uchida, S.
- II. Title: Properties. . .
- III. ATS-07N58J
- IV. Associated Technical
Services, Inc., East
Orange, N. J.

Office of Technical Services

Catalytic Oxide-Reduction by Some Metallic Complex Salts. XVII, Hydrogen Absorption of Cobalt-Cyanide Complex Salt, by Masasuke Iguchi, 18 pp.

JAPANESE, per, Nihon Kagaku Zasshi, Vol LXIII, 1942, pp 634-643.

SLA 59-15012

Sci - Chemistry
Nov 59

103,297

Acetylene and Its Polymers. III. Preparation
of Acetaldehyde with a Copper Catalyst, by
I. Nita, 5 pp.

JAP, per, J. Chem Soc, Japan, Vol. LYIII, 1942,
pp 760-762.

ASCO Tech^h Svc

Sci

Aug 58

69,785

Studies on Electrolytic Conduction of Fused Salts,
V. Viscosity of Simple Liquids, by S. Shishido, 16 pp.

JAPANESE, per, J. Chem Soc Japan, Vol LXIII, 1942,
pp 827-833.

S.L.A. Tr 529/56

Sci - Chemistry

37,129

Aug 1956

Studies on Synthetic Fibers. Part VIII.
Synthesis of Polycapramide Intermediate
Products, by K. Hoshino, I. Noissiki.
JAPANESE, per, Nippon Kagaku Zasshi, Vol
63, No 9, 1942, pp 1170-1174.
NTC 69-10843-11E

Sci-Mat
May 69

382,665

Electrolytic Conduction of Fused Salts. VI. Lindemann's Rule of Melting, by S. Shishido, 3 pp.

JAPANESE, per, Nihon Kagaku Zasshi, Vol LXIII, 19⁴/₂, pp 1738-1742.

S.L.A. Tr 652/1955

Sci - Chemistry
Apr 1957 CTS/dex

50, 271

Electrolytic Reduction of Nitriles, by Masaki Ohta,
9 pp.

JAPANESE, per, Nihon Kagaku Zasshi, Vol LXIII, 1942,
pp 1762-1765.

SLA 59-15271

Sci - Chemistry
Nov 59

103,306

Electrolytic Conduction of Fused Salts. (VIII) A
Study on the Thermal Pressure of Simple Liquids, by
S. Shishido, 9 pp.

JAPANESE, per, J Chem Soc Japan, Vol LXIV, 1943,
pp 883-886.

B.L.A. Tr 531/56

Sci - Chemistry

37,130

Aug 1956

Cobalt Amalgam and X-ray Experiments, by N. Katoh,
1 p.

JAPANESE, per, J. Chem. Soc. Japan, Vol LXIV, 1943,
p 1211.

Nihon Kagaku Zasshi

S.L.A. Tr 1870

Sci - Minerals/Metals
May 57

47,822

Adsorption of Chlorine by Magnesium Oxide, by
R. Tachiki.
JAPANESE, per, Nippon Kagaku Zasshi, Vol 65,
1944, pp 50-52.
SAC ORNL-tr-1470 P911009267

Sci/Chemistry
Nov 66

V
Viscosity of Solutions. (1) Electrolytic Conduction of
Fused Salts, Report 9, by S. Shishido, 12 pp.

JAPANESE, per, J Chem Soc Japan, Vol LXV, 1944,
pp 148-153.

S.L.A. Tr 530/56

Sci - Chemistry

37/31

Aug 1956

Catalytic Decomposition of Acetone in the Vapour
Phase under Normal Pressure, by R. Fujii.
JAPANESE, per, Nippon Kagaku Zasshi, Vol 65, 1944,
pp 181-184.
AEC/LB/G-Tr-2923

Sci/Chem
Feb 70

400,203

Viscosity of Solutions, II. (The Study of Electric Conductivity of Fused Salt, the Tenth Report.) (1), by S. Shishide, T. Yagi, 22 pp.

JAPANESE, per, Nihon Kagaku Zasshi, Vol LXV, 1944, pp 797-799.

SIA Tr 2013

52,915

Sci - Physics
Sep 57

SIA TT-64-14404

Kunitomi, M.
DEHYDRATION OF ALKALINE EARTH METAL
CHLORIDES. [Pt.] 4 of Fundamental Study of Fused
Salts. [1963] 13p (figs omitted) 3 refs
Order from SLA \$1.60

TT-64-10138

Trans. of [Nihon Kagaku Zasshi] (Japan) 1946, v. 67
[no. 1] p. 29-34. (Abstract available)

DESCRIPTORS: *Chlorides, *Alkaline earth metals,
Dehydration, Fused materials, Magnesium compounds.

Four kinds of hydrated alkaline earth metal chlorides
were thermodehydrated in air. The relation between
time, amount of residual water and the amount of
decomposed material at each temperature is discussed.
The dehydrated salt which contains extremely small
amounts of decomposed material was obtained at low
temperatures by dehydrating hydrated magnesium
chloride in the three kinds of dry-gas streams. (Author)
(Chemistry--Physical, TT, v. 11, no. 3)

TT-64-10138

- I. Kunitomi, M.
- II. Title: Fundamental ...

K-H 2911 b

Office of Technical Services

TT-63-18950

Nagasawa, S. and Funakubo, M.
MICROANALYSIS OF LEAD, ESPECIALLY TETRA-
ETHYL LEAD, IN AIR. [1963] 5p (figs omitted) 1 ref
Order from SLA \$1.10 TT-63-18950

Trans. of [Nihon Kagaku Zasshi] (Japan) 1948, v. 69,
p. 16-17.

DESCRIPTORS: *Lead, Microanalysis, *Ethyl radicals,
*Lead compounds, Air, Chemical analysis,

(Chemistry--Analytical, TT, v. 11, no. 5)

1. Title: Tetraethyl lead
I. Nagasawa, S.
II. Funakubo, M.

Office of Technical Services

The Stabilization of Hydrogen Peroxide by Means
of Colloidal Tin Dioxide, Part I, II, and III,
by Ishikawa, Yoshika, N. Nohe, 10 pp.

JAPANESE, per, J. Chem. Soc. Japan, Vol LXIX,
No 1/3 and 4/6, 1948, pp 35-37, 28-31.

T.I.L. T-4548

T.I.L. T-4549

Sci - Physics
Mar 57 CTS/dex

44, 626

Part I by SLATT-64-1422
(6 pp)

APR 15 1964

K-H 3980 f

Sci-Chem
March 64

252,075

Electrolytic Conduction of Fused Salts. XVI. Structure of Liquid Especially Viewed in Light of Transportation Phenomena, by J. Shishido, 13 pp.

JAPANESE, per, Nihon Kagaku Zasshi, Vol LXIX, 1948, pp 52-55. /8

SLA TT-64-1046/
S.L.A. Tr 653/1955

Sci .. Chemistry
Apr 1957 CTS/dex

50, 272

Melting Point of Oxalic acid Glycol, by Shiro
Tsuruta, Yasuo Suzuki, 2 pp.

JAPANESE, per, Nihon Kagaku Zasshi, Vol LXIX,
No 4/6, 1946, pp 56-57.

SIA 60-14012

Sci
Sep 61

169, 116

Fractionation of Amilan XV. Distribution of
Molecular Weight of Amilan and the Mechanism of
its Polymerization XVI, by Kohei Hoshino,
Masamoto Watanabe, 18 pp.

JAPANESE, per, Nihon Kagaku Zasshi, Vol LXX,
No 1/2, 1949, pp 24-30.

SLA 59-15801

Sci
Dec 59
Vol 2, No 5

104,258

The Theory of Film Electro-Potential Differences of
High Molecular Films, (Part 2) The Relation Between
the Transfer Rate and Concentration, by M. Nagasawa,
7 pp.

JAPANESE, per, Chem Soc of Japan, Vol LXX, No 3, 1947,
pp 45-47.

S.L.A. Tr 504/56

Sci - Chemistry

36,984

Aug 1956

V
A Study of the Odor of Soy Sauce (Parts 2-3),
by S.K. ~~T.~~ and ~~Takesi~~ Sakasima, 20 pp.

~~T. K.~~, ~~T.~~
JAPANESE, ~~per~~, Chem Soc of Japan, Vol LIX, No 3, 1949,
pp 47-52.

MIKI S.L.A. Tr 505/56

Sci - Chemistry

36,983

Aug 1956

Ion-Exchange Resins in Analytical Chemistry,
by H. Honda.
JAPANESE, per, J. Chem. Soc. Japan (Pure
Chemistry Section), Vol 70, 1949,
pp 103-104.
RISI 4575

RI-Japan
Sci/HEM
Feb 66

296,275

Study on the Dielectric Loss of Polyethylene,
by H. Fujiyo, A. Odara, 7 pp.

JAPANESE, per, Nippon Kagaku Zasshi, Vol LXX,
No 4, 1949, pp 114, 115. (loan copy only)

BLA 57-2762

Sci
Aug 58

70, 818

Nagasako, Noboru and Miyazaki, Shozo.
ON DECOMPOSITION BY TUNGSTEN. Rept. 1 of
Studies on the Catalytic Decomposition of Ammonia
Gas. [1949] 7p. 4 refs.
Order from SLA mf51.80, ph\$1.80 61-10004

Trans. of [Nihon] Kagaku Zasshi (Japan) 1949, v. 70,
no. 4, p. 134-135.

Decomposition reactions at 700° to 770°C for an initial
gas pressure range of 100 to 200 mm Hg showed that
the velocity is expressed most aptly by the equation of
C. N. Kunsman and E. S. Lamar (Phil. Mag. 7 10:
1015, 1930):

$$\frac{1}{v} = \frac{1}{\alpha(T)} + \frac{E(T)}{\alpha(T)} \frac{P_{H_2}^{1/2} P_{NH_3}^{1/2}}{P_{NH_3}^{1/2} P_{H_2}^{1/2}}$$

(See also 61-10002)

61-10004

1. Ammonia--Decomposition
2. Tungsten--Catalytic properties
1. Nagasako, N.
- II. Miyazaki, S.
- III. Title: Studies...

141,171

Office of Technical Services

Qualitative Spectroscopic Analysis of Flue Dusts,
Mainly Produced in Japan. I. The Flue Dusts Containing
Germanium, by H. Kakihana, 11 pp.

JAPANESE, per, J. Chem Soc. Japan, Vol LXX, No 7, pp
226-229, Jul 1949.

81A 57-1572

Sci - Chem
Aug 58

70,348

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The Reaction of Grignard's Reagent with Cholesterol
Oxide, by M. Nakama, 10 pp.

JAPANESE, par, J. Chem Soc Japan, Pure Chem, Sect
70, 1949, pp 253-257.

MLA 58-162

Sci

Aug 59

93,570

Change in the Chemical Structure of Cyanamide
Accompanying a Change of Phase, by Y. Otagiri.

6 pp.

JAPANESE, per, Nippon Kagaku Zasshi, Vol 70,
1949, pp 263-265.

NASA TT F-12,519

Sci-Chem
Dec 69

398,483

Miyazaki, Shozo.

ON DECOMPOSITION BY MOLYBDENUM. Rept. 2 of
Studies on the Catalytic Decomposition of Ammonia
Gas. [1950] 7p. 3 refs.

Order from SLA mi\$1.80, ph\$1.80 61-10003

Trans. of [Nihon] Kagaku Zasshi (Japan) 1949, v. 70,
no. 10, p. 373-376.

At temperatures from 700° to 820°C and initial gas
pressures from 50 to 200 mm Hg, the contact-catalytic
decomposition reaction of ammonia gas on molybdenum
was similar to the decomposition process by tungsten
previously reported (Nihon Kagaku Zasshi 70: 134-136,
1949; available in translation from SLA mi\$1.80,
ph\$1.80 as 61-10004).

141, 164

(Chemistry--Physical, TT, v. 5, no. 2)

61-10003

1. Ammonia--Decomposition
2. Molybdenum--Catalytic
properties
- I. Miyazaki, S.
- II. Title: Studies...

Office of Technical Services

Studies on Nitrate Reductase, Report No 4, by
Fujio Egami, Ryo Sato, 11 pp.

²
JAPANESE, per, Nippon Kagaku Zasshi (Journal of the
Chemical Society of Japan), Vol LXX, No 10, Oct 1949,
pp 397-399.

HHH

Scientific - Chemistry

Jan 54 CTS

9154

Miyazaki, Shojo.

ON DECOMPOSITION BY PLATINUM. Rept. 3 of
Studies on the Catalytic Decomposition of Ammonia
Gas. [1960] 7p. 1 ref.

Order from SLA m\$1.60, ph\$1.80 61-10002

Trans. of [Nihon] Kagaku Zasshi (Japan) 1949, v. 70,
no. 11/12, p. 439-442.

Ammonia gas decomposition reaction by a platinum
metal catalyst was conducted at 650° to 750°C, with an
initial gas pressure of 150 to 300 mm Hg. A strong
suppression caused by the decomposition products was
seen. Although a zero-order reaction should have
occurred, the decomposition velocity dropped rapidly
and the relationship between gas pressure and velocity
was J-shaped. (See also 61-10003)

(Chemistry--Physical, TT, v. 5, no. 2)

61-10002

1. Ammonia--Decomposition
2. Platinum--Catalytic
properties
- I. Miyazaki, S.
- II. Title: Studies...

141,170

Office of Technical Services

Synthesis of Hydroxyamino Acids and Their
N-Methyl Derivatives, Synthesis of N-Methyl
Allothreonine And Some Derivatives of Threonines,
by Nobuo Izumiya.

JAPANESE, per, Nihon Kagaku Zasshi, Vol LXX,,
No 11/12, 1949, pp 447-448.
SLA TT 64-20079

Apr 67

322,279

Takahashi, H.
ELECTRIC RESISTANCE OF CARBON POWDERS.
PT. I. RELATIONSHIP BETWEEN ELECTRIC RE-
SISTANCE AND THE CONTENT OF VOLATILE
MATERIALS. 9p 3refs.
Order from SLA \$1.10

TT-64-16913

Trans. of Nihon Kagaku Zasshi (Japan) 1950, v. 7¹
[no. 1] p. 29-32.

(Physics--Solid State, TT, v. 12, no. 5)

TT-64-16913

I. Takahashi, H.
II. Title: Relationship ...

Office of Technical Services

Kunitomi, M.
PRODUCTION OF METALLIC VAPOR. Pt. 6 [of] a
Fundamental Study of Fused Salts. [1963] 7p. 4 refs.
Order from SLA \$1.10 63-16028

Trans. of [Nihon Kagaku Zasshi] (Japan) 1950, v. 71,
p. 40-42.

DESCRIPTORS: *Calcium, *Vaporization, Vapors,
Fused materials, Phase studies, Electrolysis, Oxides.

(Metallurgy--Light Metals, TT, v. 10, no. 7)

63-16028

I. Kunitomi, M.
II. Title: Fundamental...

K-H 2160

Office of Technical Services

Ion-Exchange Resins Applied to Analytical Chemistry. VII. Separation of Al^{+++} and Other Metallic Ions from Fluorine Ions, by M. Honda, 4 pp.

JAPANESE, ^{part} J Chem soc Japan Pure Chem Sect, Vol LXXI, No 1, 1950, pp 59, 60.

Assoc Tech Ser 1874J

ATS/JJ-2109

50A 57-3013

Jul 58

69,915

61-10005

Miyazaki, Shozo.
STUDIES ON THE CATALYTIC DECOMPOSITION OF
AMMONIA GAS. IV. ON DECOMPOSITION REACTION
BY NICKEL. [1950] 8p. 2 refs.
Order from SLA mi\$1.80, ph\$1.80 61-10005

Trans. of Nihon Kagaku Zasshi (Japan) 1950, v. 71,
no. 1, p. 77-80.

1. Ammonia--Decomposition
2. Nickel catalysts--Effective-
ness
1. Miyazaki, S.
- II. Title: On...

Office of Technical Services

141, 166
(Chemistry--Physical, TT. v. 5, no. 2)

Takahashi, H.
ELECTRIC RESISTANCE OF CARBON POWDERS.
PT III. CONSIDERATIONS, BY MODELS, OF THE
ELECTRICAL RESISTANCE OF FREELY HEAPED
CARBON POWDERS AND A REPORT ON SOME EX-
PERIMENTAL RESULTS. 9p 3refs.
Order from SLA \$1.10 TT-64-16912

Trans. of Nihon Kagaku Zasshi (Japan) 1950, v. 71
[no. 2] p. 108-111.

(Physics--Solid State, TT, v. 12, no. 5)

TT-64-16912

I. Takahashi, H.
II. Title: Considerations ...

Office of Technical Services

Separation of Ions Using the Difference in
Adsorbability Due to Electric Charge, by
Masatake Honda, 3 pp, USCL.

JAPANESE, per, Nihon Kagaku Zasshi, Pure
Chemical Section, Vol LXXI, 1950, pp 118-120.

ATIC F-TS-9976/I

Sci - Chem

Jul 59

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Qualitative Spectrographic Analysis of Flue Dusts,
Mainly Produced in Japan. III. Indium, by H.
Kakihana, 8 pp. *Sci Chem*

JAPANESE, per, J Chem Soc Japan, Vol LXXI, No 2, pp
145-148, 1950.

SIA 57-2573

Sci - Chem
Aug 58

70,349

Reaction of Methyl Radicals With Methanol, by
S. Kodama, Y. Takezaki, J. Yoshida.

Full translation.

JAPANESE,

Nihon Kagaku Gasshi (J. Chem. Phys.)
KUSUNAKI, for, ~~Journal of the Chemical Society of Japan~~
Vol LXXI, No 3, 1950, pp 173-177.

AEC Tr 1557

and also D.S.I. T 27 J

Scientific - Chemistry

CIA 1413081

May 53 CTS

209A

Kunitomi, M.
PREPARATION OF METALLIC CALCIUM. Pt. 7 [of]
a Fundamental Study of Fused Salts. [1963] 7p. 8 refs.
Order from SLA \$1.10 63-16029

Trans. of Nihon Kagaku Zasshi (Japan) 1950, v. 71,
p. 212-214.

DESCRIPTORS: *Calcium, Fused materials, Elec-
trolysis, Laboratory furnaces, Temperature.

(Metallurgy--Light Metals, TT, v. 10, no. 7)

63-16029

I. Kunitomi, M.
II. Title: Fundamental...

Office of Technical Services

Vapor Pressures of Molecular Crystals (Eighth Report). Vapor Pressures of Aromatic Nitro Compounds, by Isamu Nitta, Syuzo Saki, Masanori Koyotani, Kentaro Sato, 13 pp.

JAPANESE, per, Nippon Kagaku Zasshi, Vol LXXI, 1950, pp 378-382.

AEC 3425

Sci - Phys

Dec 58

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62-26909

Kojima, H.
ISOMERISATION DE L' α -PINENE PAR LES SELS
D'AMMONIUM- L'ARGILLE ACIDES JAPONAISE
(Isomerization of α -Pinene by Treatment with
Ammoniated Japanese Acid Clay). 6p 4 refs
Order from OPA, ETC or CNRS \$0.80 62-26909

Trans. in French of Nihon Kagaku Zasshi (Japan) 1950.
v. 71, no. 6/7, p. 399-401.

DESCRIPTORS: *Terpenes, *Molecular isomerism,
Heat, Ammonium radicals.

(Chemistry--Organic, TT, v. 10, no. 10)

1. Title: Pinene
1. Kojima, H.
H. Centre National de la
Recherche Scientifique

Office of Technical Services

Study of Methods of Volumetric Analysis With
Chromous Salt, Rpt No 1, by Yuo Muraki, 5 pp,
(ED 1257544). UNCLASSIFIED

JAPANESE, per, Nihon Kagaku Zasshi, Vol LXXI,
1950, pp 407-409.

G-2, GSUSA G-2877

Scientific - Chemistry

Aug 54 CTS

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The Rate of Absorption of Hydrogen by Metallic Calcium, by Yoshio Kawana, 6 pp.

JAPANESE, per, Nihon Kagaku-Zasshi, (J Chem Soc Japan, Pure Chem Sect), Vol LXXI, 1950, pp 494-495.

Assoc Tech Sv Tr 45E2J

Scientific - Chemistry
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10, 05-9

Synthesis of Hydroxyamino Acids and Their
N-Methyl Derivatives Reaction of α -Bromo- - Methoxyl
with Toluene Sulfonamide, by Nobuo Izumiya.
JAPANESE, per, Nihon Kagaku Zasshi, Vol LXXI,
No 11, 1950, pp 556-557.
SLA TT 64-20078

Apr 67 322,278

A Study on the Analytical Chemistry of by Ion
Exchange Resin, by Satokichi Yoshino, 9pp
JAPANESE, per, Nihon Kagaku Zasshi, Vol 71, 1950,
No 11, pp 577-579
SIA TT-65-10079

Sci - Chem
June 67

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Studies of Non-Metallic Compounds of Zirconium
and Hafnium, (DIFFerences in the Affinity of
Zirconium and Hafnium Toward Non-Metallic
Elements), by Shizui Fujiwara

Nihon Kasei Zasshi
JAPANESE, per, J Chem Soc Japan, Pure Chem
Sect, Vol LXXI, 1950, pp 580-584.

AEC Tr 2649

Sci - Chemistry
Nov 56 CTS

460,594

Investigation of the Calcium and Hydrogen System,
III. A Theoretical Consideration of the Mechanism
Involved in the Growth of Nuclei Consisting of
Calcium Hydride or Deuteride, by Izumi Higuchi,
Yoshi Kawana, 6 pp.

JAPANESE, per, Nihon Kagaku Zasshi (J Chem Soc Japan,
Pure Chem Sect), Vol LXXI, 1950, pp 624-627.

Assoc Tech Sv Tr 46832

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Scientific - Chemistry
CTS/DEX

The Structure and Magnetic Susceptibility of
Cyanuric and Cyameluric Acids, by Juro Maruza,
10 pp.

JAPANESE, per, Nihon Kagaku Zasshi, Vol LXXI,
1950, pp 627-629.

S.L.A. Tr No 392/1955

Sci - Chemistry
Jan 1957 CTS/dex

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New Method of Colorimetric Determination of the
Phosphate Ion With Sodium Thiosulphate, by

H. Kuroda

Nihon Kagaku Kaishi

JAPANESE, per, J Chem Soc, Vol. LXXII, 1951,
pp 23-25.

TTA3/TID T 4067

Scientific - Chemistry
GMS/DXX

8258

61-10604

Tsuruta, Shiro.
ON THE COMPOSITION LINE. Rept. no. 1 of Studies
on Aniline-Formaldehyde Resins; [Paper read at the
Annual Conference of the Chemical Society of Japan
(no. 65) Apr 43]. [1961] 8p. (refs. omitted).
Order from SLA m\$1.80, ph\$1.80 61-10604

Trans. of Nihon Kagaku Zasshi (Japan) 1951, v. 72,
no. 1, p. 101-104

DESCRIPTORS: *Aniline-formaldehyde resins. Chem-
ical analysis. Condensation reactions. Polymerization

Aniline-formaldehyde resins were synthesized and
analyses were made of their carbon, hydrogen, and
nitrogen composition. A curve of the composition line
of percent aldehyde (CH_2O) versus the aniline/formal-
dehyde ratio showed the mechanism of resin formation
to be based on addition-condensation reactions as de-
picted by $\text{C}_6\text{H}_5\text{NH}_2 + \text{CH}_2\text{O} \rightarrow \text{C}_6\text{H}_5\text{NHCH}_2\text{OH}$ and
 $\text{C}_6\text{H}_5\text{NHCH}_2\text{OH} + x\text{C}_6\text{H}_5\text{NHCH}_2\text{OH} \rightarrow \text{C}_6\text{H}_5\text{NH}_2$
(Materials--Plastics, TT, v. 6, no. 4) (over)

I. Tsuruta, S.
II. Title: Studies...
III. Title: Annual...

177019

Office of Technical Services

61-10606

Tsuruta, Shiro.
ON THE METHYLOL RADICALS AND RING STRUCTURE OF THE RESIN. Rept. no. 2 of Studies on Aniline-Formaldehyde Resins. [Paper] read at the Annual Conference of the Chemical Society of Japan (no. 65) Apr 43. [1961] [8]p. 10 refs.
Order from S.I.A. mi\$1.80, ph\$1.80

Trans. of Nihon Kagaku Zasshi (Japan) 1951, v. 72, no. 1, p. 104-107.

DESCRIPTORS: *Aniline-formaldehyde resins, Molecular structure, Polymerization, Condensation reactions..

The oxygen component of aniline-formaldehyde resins was calculated. Resins formed with an excess of formaldehyde showed greater oxygen content and indicated the formation of a methylol compound according to the reactions (1) $C_6H_5NH_2 + CH_2O \longrightarrow C_6H_5NHCH_2OH$; and (2) $C_6H_5NHCH_2OH + xC_6H_5NHCH_2OH \longrightarrow C_6H_5NH$ (Materials--Plastics, TT, v. 6, no. 4) (over)

- I. Tsuruta, S.
- II. Title: Studies...
- III. Title: Annual...

177020

Office of Technical Services

Aerobic Decomposition of Cysteine by Escherichia
Coli, Reports I and II, by Nobuo Taniya, 23 pp.

Full translation.

JAPANESE, per, Nihon Kagaku Zasshi, Vol LXXII,
No 1, Jan 1951, pp 118-124.

CIA/FDD/X-1052

Scientific -Medicine Aug 53 CTS/DEX

4655

(FDD 22988)

Continuous Spectra Appearing in Super-High
Frequency Torch Discharge, by Imahori Kazutomo
U. Nobuo, 8 pp.
Full translation

JAPANESE, no per, Nippon Kagaku Zasshi, Vol LXXII,
No 1, prob Tokyo, Jan 1951, pp 139-141.

CIA/FDD/U-6724

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FE - Japan

Sci - Physics, scatter rays in atmosphere

CTS 62/Nov 54 (WAK)

Reagents for the Identification of Organic Acids.
(Colored Derivatives of Carboxylic Acid), by
Kobunro Sigiya, Rokuro Harada, Tadatsune Mita,
Tadashi Ueno, 9 pp.

Full translation.

JAPANESE, per, Nihon Kagaku Zasshi, Vol LXXII,
No 1, Jan 1951, pp 152-154.

CIA/FDD/X-1050

Scientific -Medicine Aug 53 CTS/DEK

4653

Studies in Inorganic Paper Chromatography. IV.
Verification of Separation of Salts of Metals
of the Copper Family, With Application to
Systematic Qualitative Analysis, by Shiro
Harazawa, 6 pp.

JAPANESE, per, Nippon Kagaku Zasshi, Vol LXXII,
1951, pp 236-239.

AEC UCRL-Trans-543(L)

Sci - Chem
26 Oct 60

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